

Enterprise Intelligent Reporting Tool





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1 Rifumo Empowerment Holdings (REH)

1.1 Company Profile (Summarized)

Established in 2013, Rifumo Empowerment Holdings (REH) is an Information Technology firm specializing in Process Automation (PA), Business Intelligence (BI), eCommerce Solutions, Data Warehousing (DW), Digitization, Customer Relationship Management systems (CRM), Application Development and Microsoft Business Central (BC). Our expertise in the development and implementation of Microsoft Technology (MT) enables our team to utilize standard best practices in the implementation of new technology and innovation. REH is a 100% black-owned SMME, B-BBEE Level 1 contributor and a Microsoft Gold Partner.

REH excels in development, customization, configuration, and implementation of technology solutions that offer expert guidance on the latest developments in technology across multiple industries. The organization provides tailor-made solutions that are user-centric and customer focused, to enable digital transformation using standard best practices and tried and tested methodologies.

We provide innovative technology through dedicated partnerships with our clients as we work to achieve outcomes that are user-driven and cost-effective. We take pride in enabling solutions and sharing knowledge collaboratively with our clients.

1.2 Proven Track Record

Rifumo has a proven track record and strong credentials in Microsoft Dynamics 365 projects, eCommerce, ICT Assessments, Business Process Design, System Integrations, and Project Management techniques. We remain a partner of choice to several Public Sector Clients. Our clientele base includes but is not limited to the following.

- Johannesburg Development Agency JDA
- City of Johannesburg Departments
- Public Investment Corporation
- Gauteng Department of Education

1.3 Our Solid and Robust Methodology

Our Project Management and Implementation methodology is based on the Microsoft Operations Framework and the Dynamics Sure-Step toolsets. These are tried, tested, and trusted methodologies which have, over the years been utilized, and proven to add the desired value to Clients.

For a detailed company profile please click on the link below.

2 Reporting Tool Executive Summary

2.1 Introduction

Enterprise Intelligent Reporting Tool aims to centralize and streamline spatial data, making it more accessible and useful for various clients including government departments and stakeholders. In the modern era of digital transformation, data is a critical ingredient to unlocking insights, driving operational efficiency, and improving service delivery. This Tool is for Organizations that are committed to leverage on existing data lakes to perform analytics so as to drive better decision-making, enhance services, and enable more effective governance within an organization. The Solution is a critical part of that commitment, designed to centralize, streamline, and enhance the data capabilities. The core objective is to mine data coagulated from platforms within an organization into a unified, scalable, and secure reporting platform on Microsoft Azure, a leading cloud service provider known for its robust data analytics capabilities. The result will be a modern, efficient, and powerful data analytics solution that can serve as the foundation for a data-driven future, providing valuable tools for improving operations, services, and strategic decision-making.

3 Solution Overview

3.1 Comprehensive Data Insights

Enterprise Intelligent Reporting offers a robust suite of tools for analyzing and visualizing data from various sources, providing a holistic view of performance.

1. **Scalability:** With the technology built on Microsoft cloud infrastructure, Azure's cloud infrastructure ensures that the reporting solution can scale with any organization's needs, accommodating growing data volumes and demands.
2. **Security and Compliance:** Azure provides advanced security features and compliance certifications, ensuring that data is protected and meets worldwide industry standards.
3. **Integration Capabilities:** Seamlessly integrates with existing systems and data sources, allowing for real-time data analysis and reporting.
4. **Cost Management:** Helps monitor and manage costs effectively, providing detailed insights into resource usage and expenditure.
5. **Customization:** Offers flexible reporting options, allowing for tailored reports to meet specific business requirements and preferences.

3.2 Key benefits of the Enterprise Intelligent Reporting Tool

- 1. Enhanced Data Analysis:**
AI capabilities allow for more sophisticated data analysis, uncovering patterns and trends that might be missed with traditional methods.
- 2. Improved Decision-Making:**
AI-driven insights enable decision-makers to rely on data rather than intuition, leading to more informed and accurate decisions.
- 3. Time Efficiency:**
Automated insights and natural language queries save users valuable time, allowing them to focus on strategic tasks.
- 4. Accessibility for Non-Technical Users:**
AI features makes it easier for non-technical users to prepare data, create machine learning models, and gain insights from both structured and unstructured data
- 5. Predictive Analytics:**
AI-powered predictive analytics help forecast future trends and makes it possible for organizations to proactively respond to emerging opportunities and challenges.
- 6. Interactive Visualizations:**
AI enhances Power BI's data visualization capabilities, providing dynamic and interactive reports that are easy to understand and act upon.
- 7. Scalability:**
Power BI with AI can handle large volumes of data, making it suitable for organizations.
- 8. Cost Savings:**
By automating data analysis and reporting processes, AI reduces the need for manual intervention, leading to cost savings.
- 9. Real-Time Insights:**
AI enables real-time data analysis, providing up-to-date information that can be crucial for timely decision-making.
- 10. Enhanced Collaboration:**
AI-driven insights and reports facilitate better collaboration between business analysts, data engineers, and data scientists

3.3 Visualization

Power BI is a versatile tool that helps organizations visualize and analyze data from various sources. To get started, you first need to connect Power BI to your data sources, which can include databases, cloud services, and Excel files. Once your data is imported, you can use Power Query to clean and transform it, such as removing duplicates, filtering rows, and merging tables.

Next, you'll want to create relationships between different tables to build a coherent data model. This is where Data Analysis Expressions (DAX) come in handy, allowing you to create calculated columns and measures for more advanced analysis.

When it comes to creating reports, Power BI offers a wide range of visualizations like bar charts, line charts, pie charts, and maps. You can also import custom visuals from the Power BI marketplace to enhance your reports. Adding interactive elements like slicers, filters, and drill-throughs makes your reports more user-friendly.

After your reports are ready, you can publish them to the Power BI service to share with others in your organization. Creating dashboards provides a high-level overview of key metrics and KPIs, and using Power BI workspaces allows for collaboration with team members on report development and sharing.

For example, a Sales Performance Report in Power BI might include insights into sales performance across different regions, products, and time periods. Visuals could include bar charts for sales by region, line charts for sales trends over time, and pie charts for product category distribution.

A Financial Report could provide a comprehensive view of income statements, balance sheets, and cash flow statements, using matrix visuals to display financial data along with trend lines and KPIs to highlight key financial metrics.

A Customer Engagement Report might analyze customer interactions and engagement with the company, featuring heat maps for customer activity, funnel charts for conversion rates, and scatter plots for customer segmentation.

Lastly, a Procurement Insights Report could offer insights into the procurement process, highlighting bottlenecks and efficiency metrics. Visuals might include Gantt charts for procurement timelines, bar charts for supplier performance, and line charts for procurement costs.

3.4 Azure Maps and Power BI

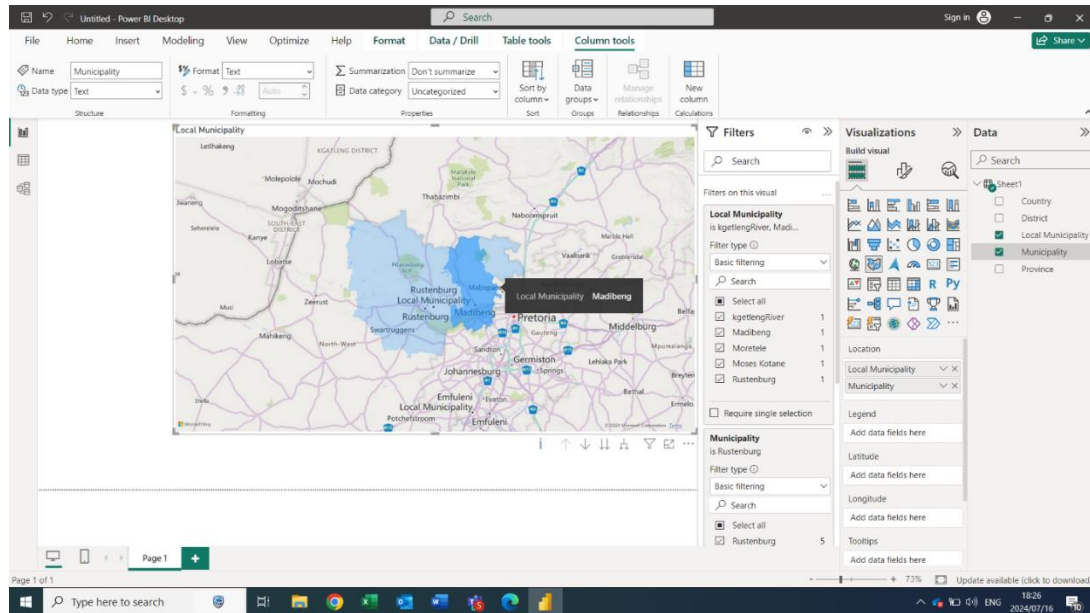
Azure Maps visual from the Visualizations pane in Power BI. This enables Power BI to render the map and plot your data points accurately.

Uses and Benefits

1. **Geospatial Analysis:** Azure Maps in Power BI helps you analyze data with a geographical component. For example, you can visualize sales performance across different regions, identify high-performing areas, and spot trends based on location.
2. **Enhanced Data Visualization:** The integration allows you to use a variety of colors and shapes to represent different data points, making it easier to understand complex datasets. For instance, you can use colored bubbles to indicate sales volumes or customer density in different areas.
3. **Real-Time Data Insights:** By combining Azure Maps with real-time data feeds, you can monitor and respond to changes as they happen. This is particularly useful for logistics and supply chain management, where tracking the movement of goods in real-time can optimize operations.

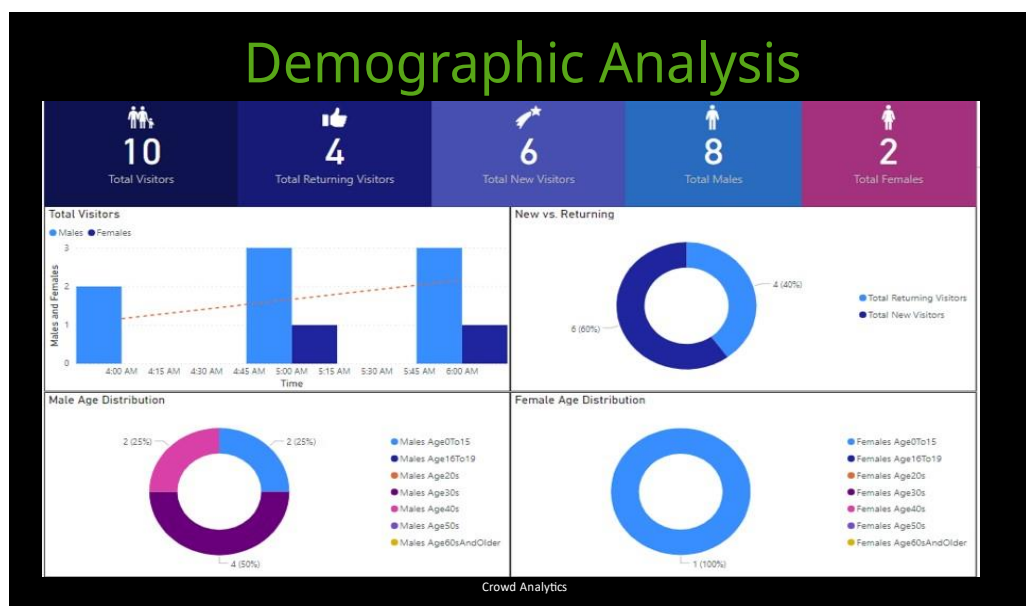
4. **Customizable Maps:** Azure Maps offers a range of customization options, allowing you to tailor the visualizations to your specific needs. You can adjust map styles, layers, and data points to create compelling visual stories that support decision-making.

Example Dashboard

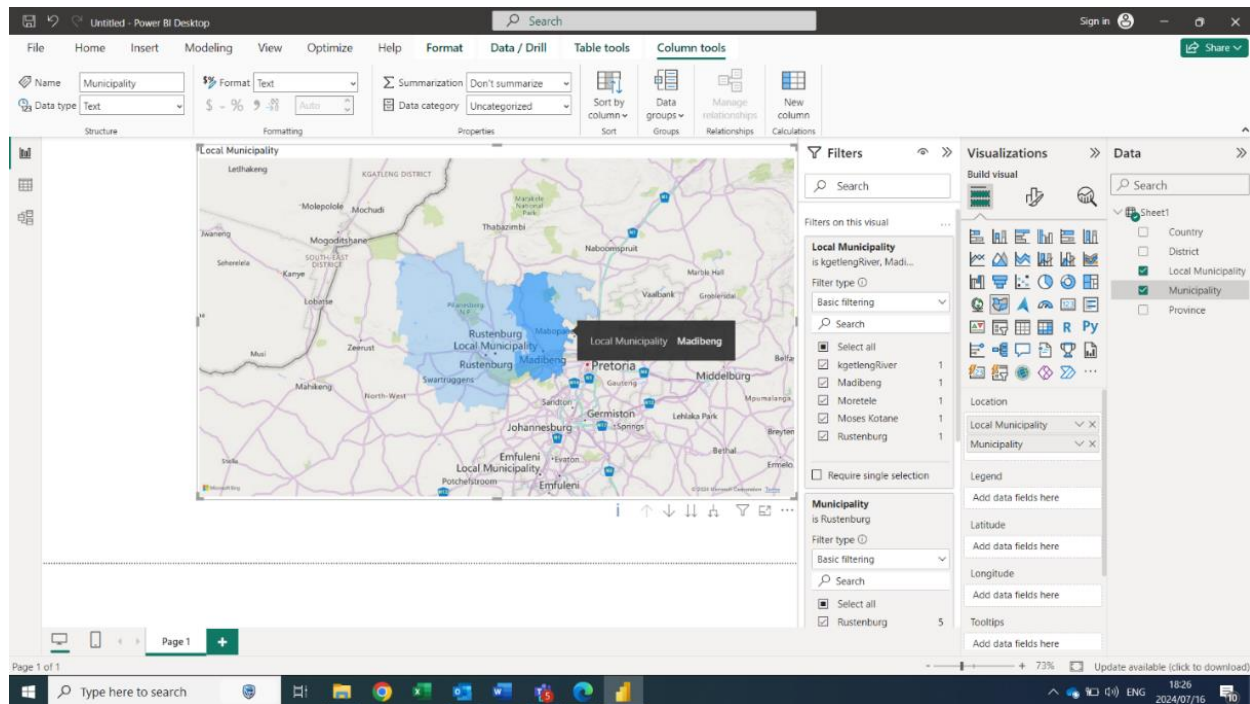


5. Example Use Cases

- **Retail Analysis:** customer demographics, and sales performance to identify opportunities



- **Logistics and Supply Chain:** Track shipments, optimize delivery routes, and monitor warehouse locations to improve efficiency and reduce costs.
- **Urban Planning:** Analyze population density, infrastructure development, and environmental impact to support city planning and development projects.



Spatial Planning Dashboard

4 Financial Implications

Milestone	Task	Hours	Cost
Project Initiation			
	Define project goals and scope.	150	\$ 64 886,76
	Identify stakeholders and form the project team.	132,9	\$ 57 489,67
	Confirm budget and initial project plan.	145,8	\$ 63 069,93
Planning Phase			
	Conduct workshops to gather requirements.	220,5	\$ 57 716,15
	Document business needs and reporting requirements.	196,5	\$ 33 567,53
	Develop a detailed project timeline and resource plan.	168,88	\$ 28 849,29
Design Phase			
	Design data architecture and data flow.	328,8	\$ 53 450,16
	Create mock-ups of reports and dashboards.	348,1	\$ 59 464,93
	Define data security and access controls.	288	\$ 49 198,21
Testing Phase			
	Perform user acceptance testing (UAT).	448,47	\$ 76 610,84
	Make necessary adjustments based on feedback.	326,34	\$ 55 747,73
Deployment Phase			
	Set up the production environment.	268,23	\$ 45 820,96
	Migrate data to the production environment.	351	\$ 59 960,32
	Go-live with reports and dashboards.	289,19	\$ 49 401,50
Training and Support			
	Conduct training sessions for end-users.	258	\$ 35 267,54
	Provide user manuals and documentation.	200	\$ 33 614,37
	Set up a support team for ongoing maintenance.	125,2	\$ 22 077,48
Monitoring and Evaluation			

	Monitor the performance of the reporting platform.	256	\$	65 597,62
	Collect feedback and make necessary improvements.	140	\$	35 873,70
		Total Excl Vat	\$	947 664,68
		VAT	\$	142 149,70
		Total Incl VAT	\$	1 089 814,39

Currency Conversion Disclaimer:

Conversion Rate 1USD = 18,31ZAR

The prices quoted in South African Rands have been converted to USD based on the exchange rate on 23 December 2024. Please note that the converted USD amount is locked at the above rate and will not be subject to further fluctuations in currency values. Any purchases or transactions made in the future might have a different rand value based on the updated exchange rate at the time of purchase.

We strive to provide accurate and consistent pricing; however, any significant changes in exchange rates occurring after the locked date will not be reflected in our prices.